

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
11 May 2000 (11.05.2000)

PCT

(10) International Publication Number  
**WO 00/26248 A3**

(51) International Patent Classification<sup>7</sup>: **C07K 14/35**,  
7/08, 16/12, C12Q 1/68, G01N 33/68, 33/569, 33/53,  
A61K 38/10, 31/70

(74) Agents: **IRVINE, Jonquil, Claire et al.**; J. A. Kemp &  
Co., 14 South Square, Gray's Inn, London WC1R 5LX  
(GB).

(21) International Application Number: **PCT/GB99/03635**

(22) International Filing Date:  
3 November 1999 (03.11.1999)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
9824213.4 4 November 1998 (04.11.1998) GB  
60/107,004 4 November 1998 (04.11.1998) US

(71) Applicant (for all designated States except US): **ISIS IN-  
NOVATION LIMITED** [GB/GB]; Ewert House, Ewert  
Place, Summertown, Oxford OX2 7BZ (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LALVANI, Ajit**  
[GB/GB]; Nuffield Department of Clinical Medicine, John  
Radcliffe Hospital, Headington, Oxford OX3 9DU (GB).  
**PATHAN, Ansar, Ahmed** [PK/GB]; Nuffield Department  
of Clinical Medicine, John Radcliffe Hospital, Headington,  
Oxford OX3 9DU (GB).

(81) Designated States (national): AE, AL, AM, AT, AU, AZ,  
BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK,  
DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,  
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,  
LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,  
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,  
UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent  
(AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent  
(AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU,  
MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:  
11 October 2001

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: **TUBERCULOSIS DIAGNOSTIC TEST**

(57) Abstract: A method of diagnosing in a host infection by or exposure to a mycobacterium which expresses ESAT-6 comprising (i) contacting a population of T cells from the host with one or more peptides or analogues selected from the peptides represented by SEQ ID NO:1 to 11 and analogues thereof which can bind a T cell receptor which recognises any of the said peptides, and (ii) determining whether the T cells of said T cell population recognise the peptide(s) and/or analogue(s). The method may be performed *in vivo*. Peptides and a kit which enable the method to be carried out are provided.

WO 00/26248 A3